CLAIMS

- A drug for preventing or treating a heart disease, comprising an expression vector containing a CD9 gene as the active ingredient.
- 2. The drug for preventing or treating a heart disease according to Claim 1, wherein the heart disease is a disease causative of heart failure.
- 3. The drug for preventing or treating a heart disease according to Claim 1, wherein the heart disease is a ischemic heart disease.
- 4. The drug for preventing or treating a heart disease according to Claim 3, wherein the ischemic heart disease is myocardial infarction.
- 5. The drug for preventing or treating a heart disease according to Claim 1, wherein the heart disease includes one or more of cardiomyopathy, hypertensive heart diseases, valvular disease, congenital heart diseases and myocarditis.
- 6. The drug for preventing or treating a heart disease according to Claim 1, wherein the heart disease is arrhythmia.
- 7. The drug for preventing or treating a heart disease according to Claim 6, wherein the arrhythmia is tachyarrhythmia.
- 8. The drug for preventing or treating a heart disease according to Claim 7, wherein the tachyarrhythmia is superventricular arrhythmia and/or ventricular arrhythmia.
 - 9. The drug for preventing or treating a heart disease

according to any of Claims 6 to 8, wherein the heart disease is one or more of WPW syndrome, long QT syndrome, Brugada syndrome, and arrhythmia-inducing right ventricular dysplasia (ARVD, ARVC).

- 10. The drug for preventing or treating a heart disease according to Claim 1, wherein the heart disease is associated with cardiac hypertrophy and/or tachycardia.
- 11. The drug for preventing or treating a heart disease according to Claim 10, wherein cardiac hypertrophy or tachycardia is caused by at least one of HB-EGF (heparin binding epidermal growth factor), HGF (hepatocyte growth factor) or angiotensin 2.
- 12. The drug for preventing or treating a heart disease according to any of Claims 1 to 11, wherein the expression vector is a viral vector or a non-viral vector.
- 13. The drug for preventing or treating a heart disease according to Claim 12, wherein the viral vector is adenovirus, adeno-associated virus, retrovirus, herpesvirus, herpes simplex virus, lentivirus, Sendai virus, poxvirus, poliovirus, symbis virus or vaccinia virus.
- 14. A method for preventing or treating a heart disease, comprising expressing a CD9 gene in heart.
- 15. The method for preventing or treating a heart disease according to Claim 14, wherein the heart disease is a disease causative of heart failure.
 - 16. The method for preventing or treating a heart disease

according to Claim 14, wherein the heart disease is a ischemic heart disease.

- 17. The method for preventing or treating a heart disease according to Claim 16, wherein the ischemic heart disease is myocardial infarction.
- 18. The method for preventing or treating a heart disease according to Claim 14, wherein the heart disease includes one or more of cardiomyopathy, hypertensive heart diseases, valvular disease, congenital heart diseases and myocarditis.
- 19. The method for preventing or treating a heart disease according to Claim 14, wherein the heart disease is arrhythmia.
- 20. The method for preventing or treating a heart disease according to Claim 19, wherein the arrhythmia is tachyarrhythmia.
- 21. The method for preventing or treating a heart disease according to Claim 20, wherein the tachyarrhythmia is superventricular arrhythmia and/or ventricular arrhythmia.
- 22. The method for preventing or treating a heart disease according to any of Claims 19 to 21, wherein the heart disease is one or more of WPW syndrome, long QT syndrome, Brugada syndrome, arrhythmia-inducing right ventricular dysplasia (ARVD, ARVC).
- 23. The method for preventing or treating a heart disease according to Claim 14, wherein the heart disease is associated with cardiac hypertrophy and/or tachycardia.
 - 24. The method for preventing or treating a heart disease

according to Claim 23, wherein cardiac hypertrophy or tachycardia is caused by at least one of HB-EGF (heparin binding epidermal growth factor), HGF (hepatocyte growth factor) or angiotensin 2.

- 25. The method for preventing or treating a heart disease according to any of Claims 14 to 24, wherein the prevention or treatment is carried out by a gene therapy of transferring a CD9 gene.
- 26. The method for preventing or treating a heart disease according to Claim 25, wherein the gene therapy comprises using a drug containing an expression vector containing a CD9 gene as the active ingredient.
- 27. The method for preventing or treating a heart disease according to any of Claims 14 to 24, wherein the prevention or treatment comprises administration of an expression inducing substance for expressing endogenous CD9.